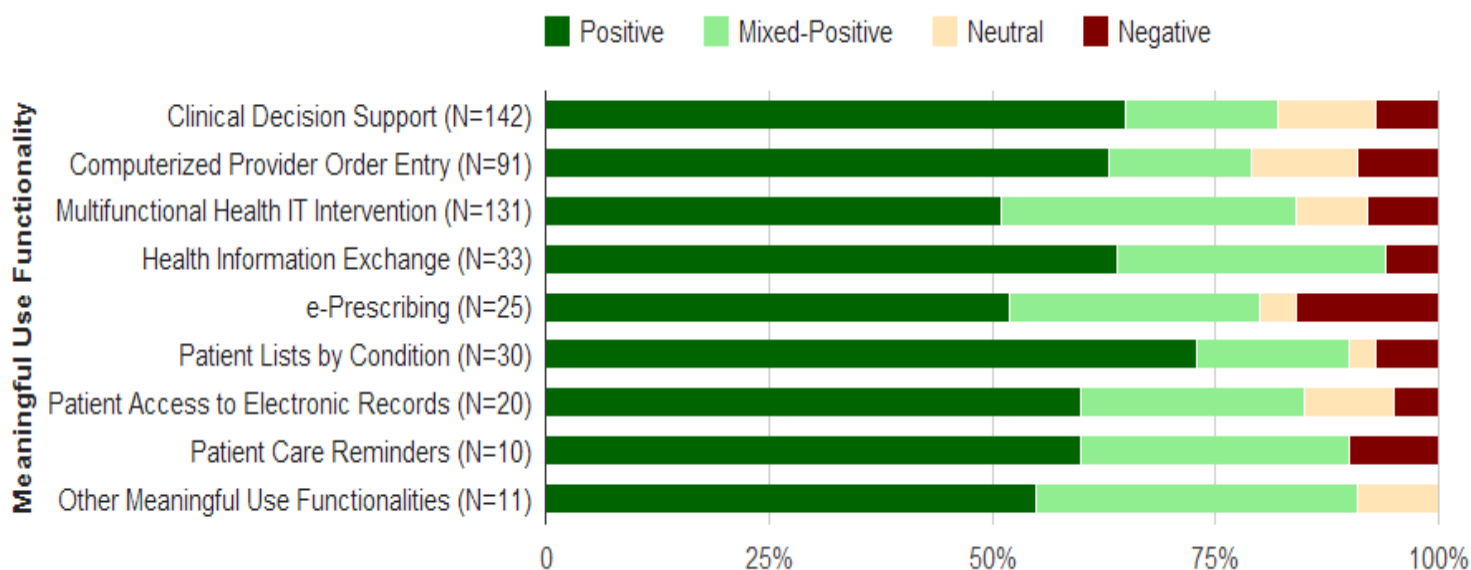


Health IT Quick-Stat # 12

Effects of Meaningful Use Functionalities on Health Care Quality, Safety and Efficiency, By Study Outcome Result (% of Studies)

Systematic Review of Literature from 2007-2013



MU Functionality	Positive	Mixed-Positive	Neutral	Negative
Clinical Decision Support (N=142)	65%	17%	11%	7%
Computerized Provider Order Entry (N=91)	63%	16%	12%	9%
Multifunctional Health IT Intervention (N=131)	51%	33%	8%	8%
Health Information Exchange (N=33)	64%	30%	0%	6%
e-Prescribing (N=25)	52%	28%	4%	16%
Patient Lists by Condition (N=30)	73%	17%	3%	7%
Patient Access to Electronic Records (N=20)	60%	25%	10%	5%
Patient Care Reminders (N=10)	60%	30%	0%	10%
Other Meaningful Use Functionalities (N=11)	55%	36%	9%	0%

Summary:

Graphic visualizes Health IT evaluation studies, 2007-2013 (n=493), related to the impact of Meaningful Use functionality on the quality, efficiency, and safety of care (or aspects of care). Positive defined as health IT improved key aspects of care but none worse off; Mixed-positive defined as positive effects of

health IT outweighed the negative effects; Neutral defined as health IT not associated with change in outcome; Negative defined as negative effects of health IT on outcome.

Source:

Office of the National Coordinator for Health IT review of 2007-2013 Health IT literature through the efforts of two separate studies:

Spencer S. Jones, PhD; Robert S. Rudin, PhD; Tanja Perry, BHM; and Paul G. Shekelle, MD, PhD. 'Health Information Technology: An Updated Systematic Review With a Focus on Meaningful Use,' Ann Intern Med. 2014;160(1):48-54.

<http://annals.org/article.aspx?articleid=1811028&atab=10>"><http://annals.org/article.aspx?articleid=1811028&atab=10>

Melinda Beeuwkes Buntin, Matthew F Burke, Michael C Hoaglin, David Blumenthal. 'The benefits of health information technology: a review of the recent literature shows predominantly positive results,' Health Affairs. 30(3). 464-471.

http://www.ilhitrec.org/ilhitrec/interchange/july_2011/benefits.pdf">http://www.ilhitrec.org/ilhitrec/interchange/july_2011/benefits.pdf

Notes:

[1] N = Number of unique impacts of Meaningful Use functionality on aspects of care

[2] Other Meaningful Use Functionalities: Barcode Medication Administration, Clinical Lab Test Results, Electronic Immunization Registries, Medication Lists, Patient Specific Education, Problem Lists, and Summary of Care Records.

Suggested Citation:

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